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7269720, A2002-13-0760P-003, B2002-06-7320C-027; 20020520.

Title

Geometric phase low-coherence interference microscopy at high numerical apertures.

Author(s)

[Roy-M](#); [Svahn-P](#); [Sheppard-C-J-R](#).

Author affiliation

Dept of Phys Opt, Sydney Univ, NSW, Australia.

Source

Photonics 2000: International Conference on Fiber Optics and Photonics, Calcutta, India, 18-20 Dec. 2000.

Sponsors: SPIE.

In: Proceedings-of-the-SPIE-The-International-Society-for-Optical-Engineering (USA), vol.4417, p.529-32, 2001.

CODEN

PSISDG.

ISSN

ISSN: 0277-786X, CCCC: 0277-786X/01/ (\$15.00).

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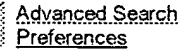
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Abstract

A low-coherence **Linnik** interference microscope using high numerical aperture optics has been constructed. The system uses a tungsten halogen lamp and a **Koehler** illumination, with separate control over field and aperture stops, so that experiments can be conducted with a range of different operating conditions. The novel feature of the system is the use of an achromatic phase-shifter operating



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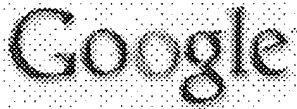
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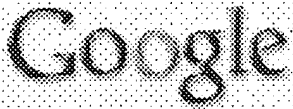
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